

DSC-W5/W7/W15/W17

SERVICE MANUAL

LEVEL 3

Ver 1.1 2005.12

Revision History

How to use
Acrobat Reader



Photo: DSC-W5/Silver

DSC-W5/W7

US Model

Canadian Model

Argentine Model

Brazilian Model

Japanese Model

DSC-W5/W7/W15/W17

AEP Model

UK Model

E Model

Australian Model

Hong Kong Model

Korea Model

Tourist Model

DSC-W5/W7/W15

Chinese Model

Link

• FRAME SCHEMATIC DIAGRAM

• PRINTED WIRING BOARDS

• SCHEMATIC DIAGRAMS

• REPAIR PARTS LIST

- For ADJUSTMENTS (SECTION 6), refer to SERVICE MANUAL, ADJ (9-876-856-51).
- For INSTRUCTION MANUAL, refer to SERVICE MANUAL, LEVEL 1 (9-876-856-41).
- This service manual contains information for Japanese model as well.
- Reference No. search on printed wiring boards is available.
- Method for Copying or Erasing the Data in Internal Memory

The information that is not described in this Service Manual is described in the LEVEL 2 Service Manual.

When repairing, use this manual together with LEVEL 2 Service Manual.

Contents of LEVEL 2 Service Manual

1. SERVICE NOTE	
2. DISASSEMBLY	
3. BLOCK DIAGRAMS	OVERALL POWER
4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS	CD-545, CD-546, SW-001, CONTROL SWITCH BLOCK
5. REPAIR PARTS LIST	EXPLODED VIEWS ELECTRICAL PARTS LIST

DIGITAL STILL CAMERA
SONY®

TABLE OF CONTENTS

<u>Section</u>	<u>Title</u>	<u>Page</u>
1. SERVICE NOTE		
1-5. Method for Copying or Erasing the Data in Internal Memory		1-3
4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS		
4-1. Frame Schematic Diagram		4-1
4-2. Schematic Diagrams		4-5
CH-168 (CCD SIGNAL PROCESS)		4-11
SY-001 (1/9) (CAMERA MODULE)		4-13
SY-001 (2/9) (CAMERA DSP, CPU)		4-15
SY-001 (3/9) (LENS DRIVE)		4-17
SY-001 (4/9) (BURST FLASH, SDRAM)		4-19
SY-001 (5/9) (AND FLASH)		4-21
SY-001 (6/9) (LCD DRIVE)		4-23
SY-001 (7/9) (AUDIO, VIDEO)		4-25
SY-001 (8/9) (DC/DC CONVERTER)		4-27
SY-001 (9/9) (FLASH DRIVE, CONNECTOR)		4-29
4-3. Printed Wiring Boards		4-35
SY-001		4-39
CH-168		4-42
4-4. Waveforms		4-45
4-5. Mounted Parts Location		4-48
5. REPAIR PARTS LIST		
5-2. Electrical Parts List		5-7

1. SERVICE NOTE

1-5. METHOD FOR COPYING OR ERASING THE DATA IN INTERNAL MEMORY

The data can be copied/erased by the operations on the Setup screen. (When erasing the data, execute formatting the internal memory.)

Note: 1 When replacing the SY-001 board, erase the data in internal memory of the board before replacement.

Note: 2 When replacing the SY-001 board or the IC381 on the SY-001 board, execute formatting and initialize the internal memory after replacement.

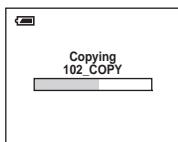
Method for Copying the Data in Internal Memory

Copy

Copies all images in the internal memory to a “Memory Stick”.

	OK	See the following procedure.
<input checked="" type="checkbox"/>	Cancel	Cancels the copying.

- ① Insert a “Memory Stick” having 32 MB or larger capacity.
- ② Select [OK] with ▲ on the control button, then press ●.
The message “All data in internal memory will be copied Ready?” appears.
- ③ Select [OK] with ▲, then ●.
Copying starts.



- Use fully charged Nickel-Metal Hydride batteries or the AC Adaptor (not supplied). If you attempt to copy image files using batteries with little remaining charge, the batteries may run out, causing copying to fail or possibly corrupting the data.
- You cannot copy individual images.
- The original images in the internal memory are retained even after copying. To delete the contents of the internal memory, remove the “Memory Stick” after copying, then execute the [Format] command in  Internal Memory Tool.
- You cannot select a folder copied on a “Memory Stick”.
- A  (Print order) mark added to an image is deleted when you copy data.

Method for Formatting the Internal Memory

Format

Formats the internal memory.

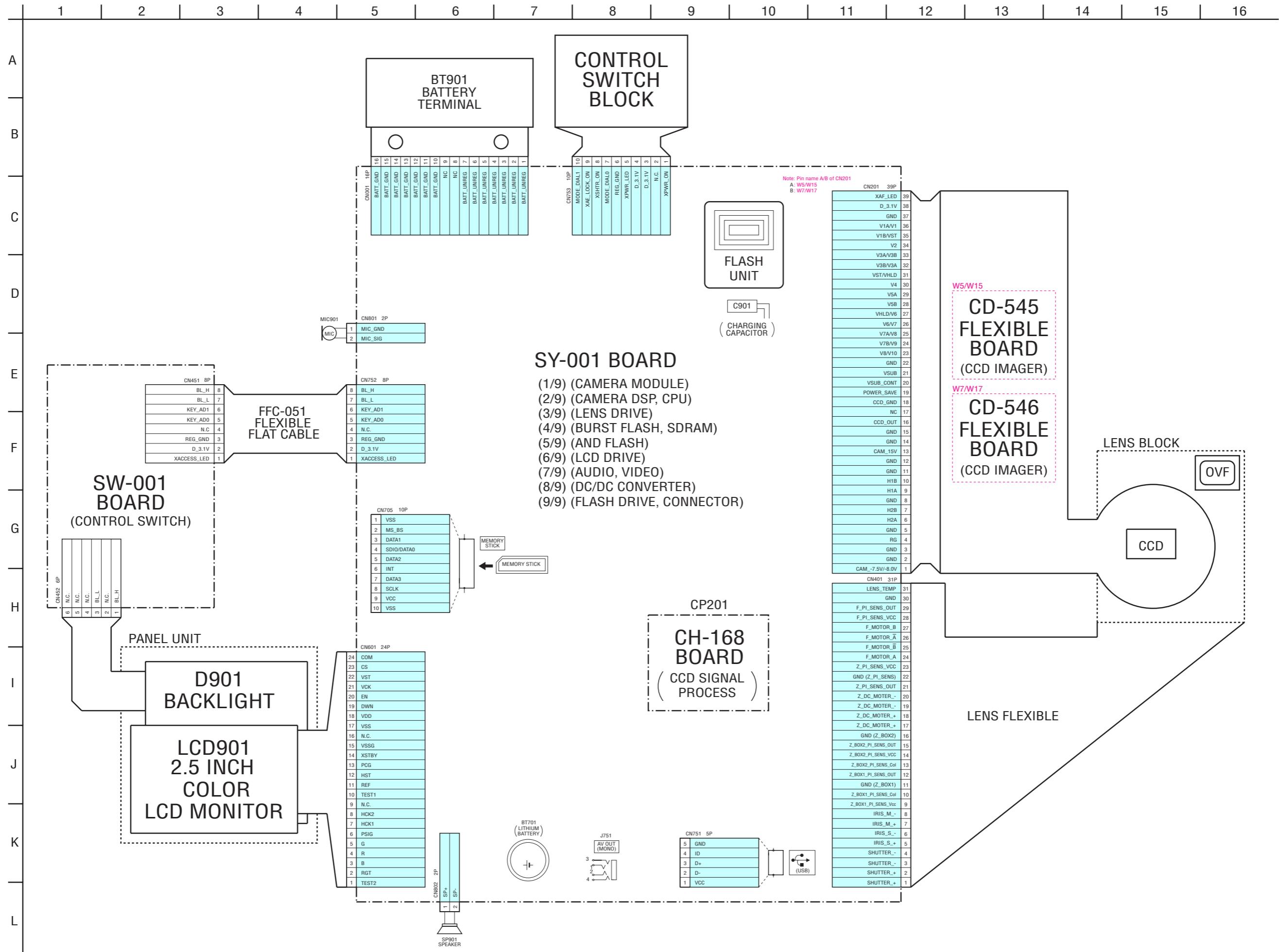
- Note that formatting irrevocably erases all data in the internal memory, including even protected images.

	OK	See the following procedure.
<input checked="" type="checkbox"/>	Cancel	Cancels the formatting.

- ① Select [OK] with ▲ on the control button, then press ●.
The message “All data in internal memory will be erased Ready?” appears.
- ② Select [OK] with ▲, then press ●.
The format is complete.

4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

4-1. FRAME SCHEMATIC DIAGRAM



4-2. SCHEMATIC DIAGRAMS

Link

- | | |
|-------------------------------------|---|
| • CH-168 BOARD (CCD SIGNAL PROCESS) | • SY-001 (5/9) (AND FLASH) |
| • SY-001 (1/9) (CAMERA MODULE) | • SY-001 (6/9) (LCD DRIVE) |
| • SY-001 (2/9) (CAMERA DSP, CPU) | • SY-001 (7/9) (AUDIO, VIDEO) |
| • SY-001 (3/9) (LENS DRIVE) | • SY-001 (8/9) (DC/DC CONVERTER) |
| • SY-001 (4/9) (BURST FLASH,SDRAM) | • SY-001 (9/9) (FLASH DRIVE, CONNECTOR) |

- | | |
|--------------------------------------|-------------|
| • COMMON NOTE FOR SCHEMATIC DIAGRAMS | • WAVEFORMS |
|--------------------------------------|-------------|

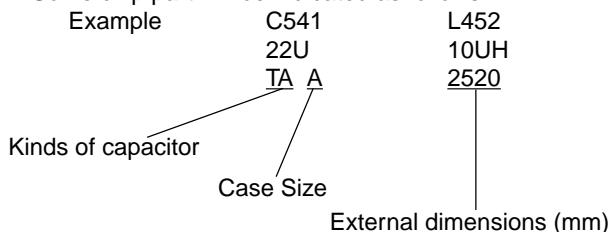
4-2. SCHEMATIC DIAGRAMS

4-2. SCHEMATIC DIAGRAMS

THIS NOTE IS COMMON FOR SCHEMATIC DIAGRAMS
(In addition to this, the necessary note is printed in each block)

(For schematic diagrams)

- All capacitors are in μF unless otherwise noted. $\text{pF} : \mu\text{F}$. 50 V or less are not indicated except for electrolytics and tantalums.
- Chip resistors are $1/10\text{ W}$ unless otherwise noted. $\text{k}\Omega=1000\ \Omega$, $\text{M}\Omega=1000\ \text{k}\Omega$.
- Caution when replacing chip parts.
New parts must be attached after removal of chip.
Be careful not to heat the minus side of tantalum capacitor, Because it is damaged by the heat.
- Some chip part will be indicated as follows.



- Constants of resistors, capacitors, ICs and etc with XX indicate that they are not used.
In such cases, the unused circuits may be indicated.
- Parts with \star differ according to the model/destination.
Refer to the mount table for each function.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

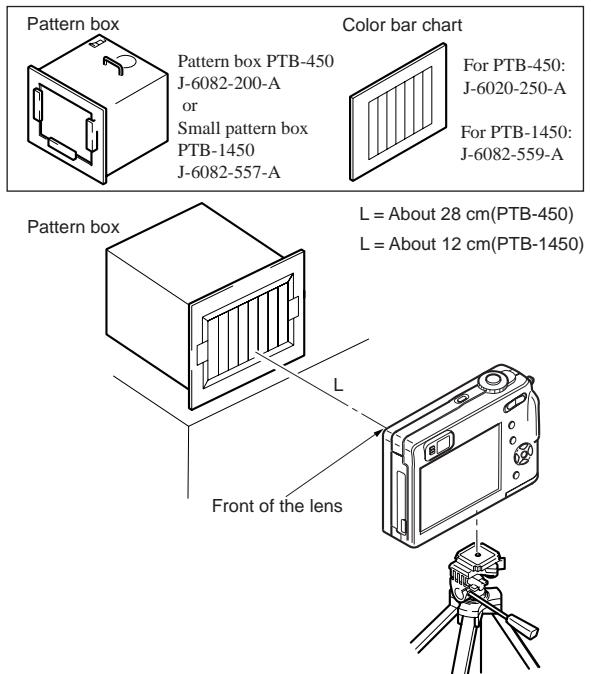
Signal name

- XEDIT → EDIT PB/XREC → PB/REC
- : non flammable resistor
 - : fusible resistor
 - : panel designation
 - : B+ Line
 - : B- Line
 - : IN/OUT direction of (+,-) B LINE.
 - : adjustment for repair.
 - : not use circuit
 - Circled numbers refer to waveforms.

(Measuring conditions voltage and waveform)

- Voltages and waveforms are measured between the measurement points and ground when camera shoots color bar chart of pattern box. They are reference values and reference waveforms.
(VOM of DC $10\text{ M}\Omega$ input impedance is used)
- Voltage values change depending upon input impedance of VOM used.)

1. Connection



2. Adjust the distance so that the output waveform of Fig. a and the Fig. b can be obtain.

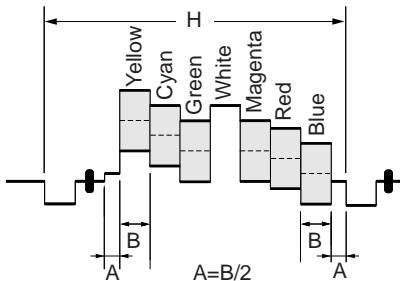


Fig. a (Video output terminal output waveform)

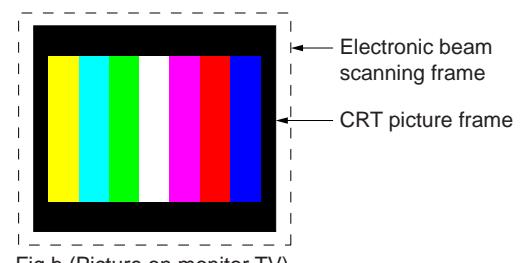


Fig.b (Picture on monitor TV)

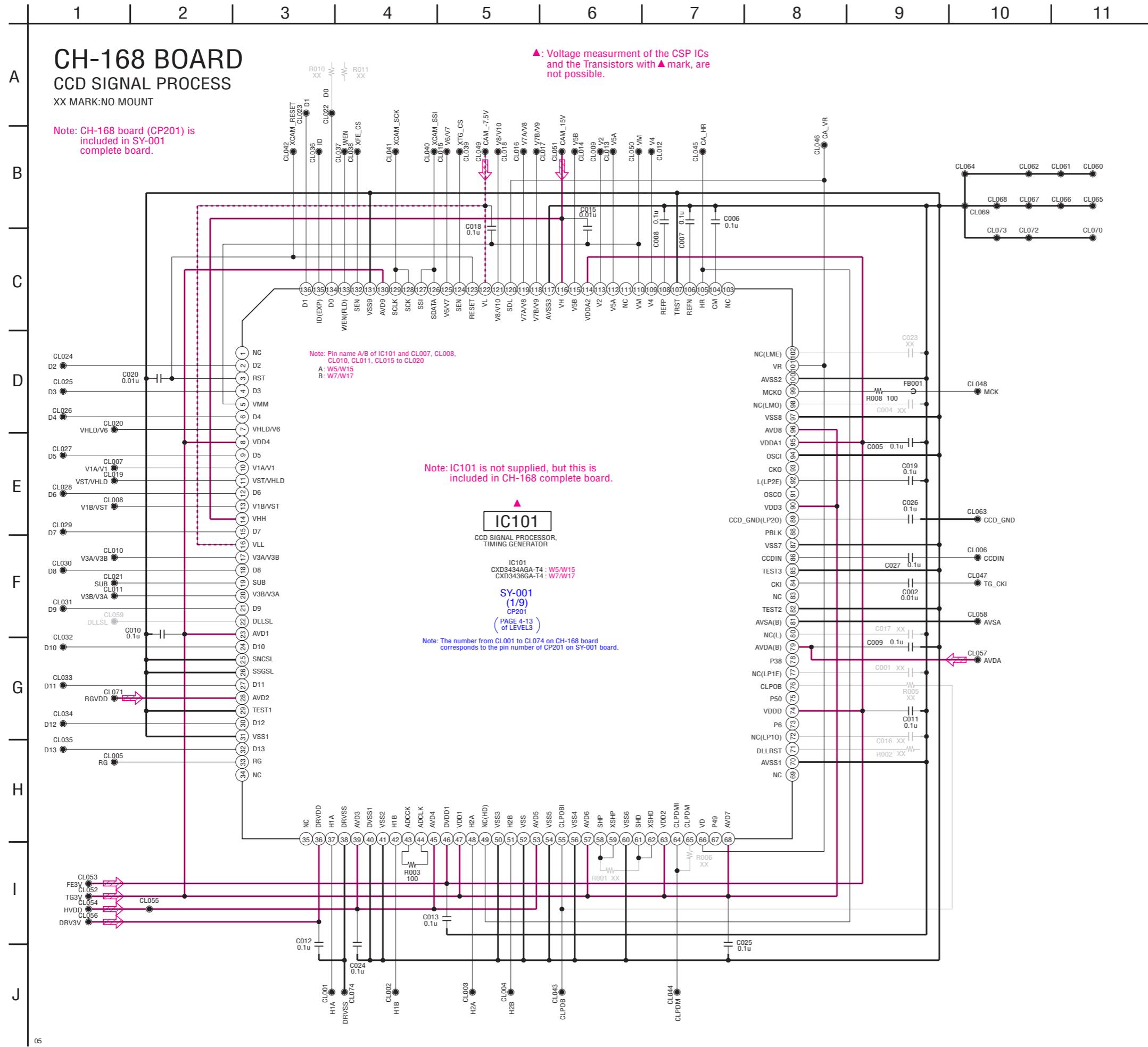
When indicating parts by reference number, please include the board name.

Note : The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.
Replace only with part number specified.

Note : Les composants identifiés par une marque \triangle sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifique.

For Schematic Diagram

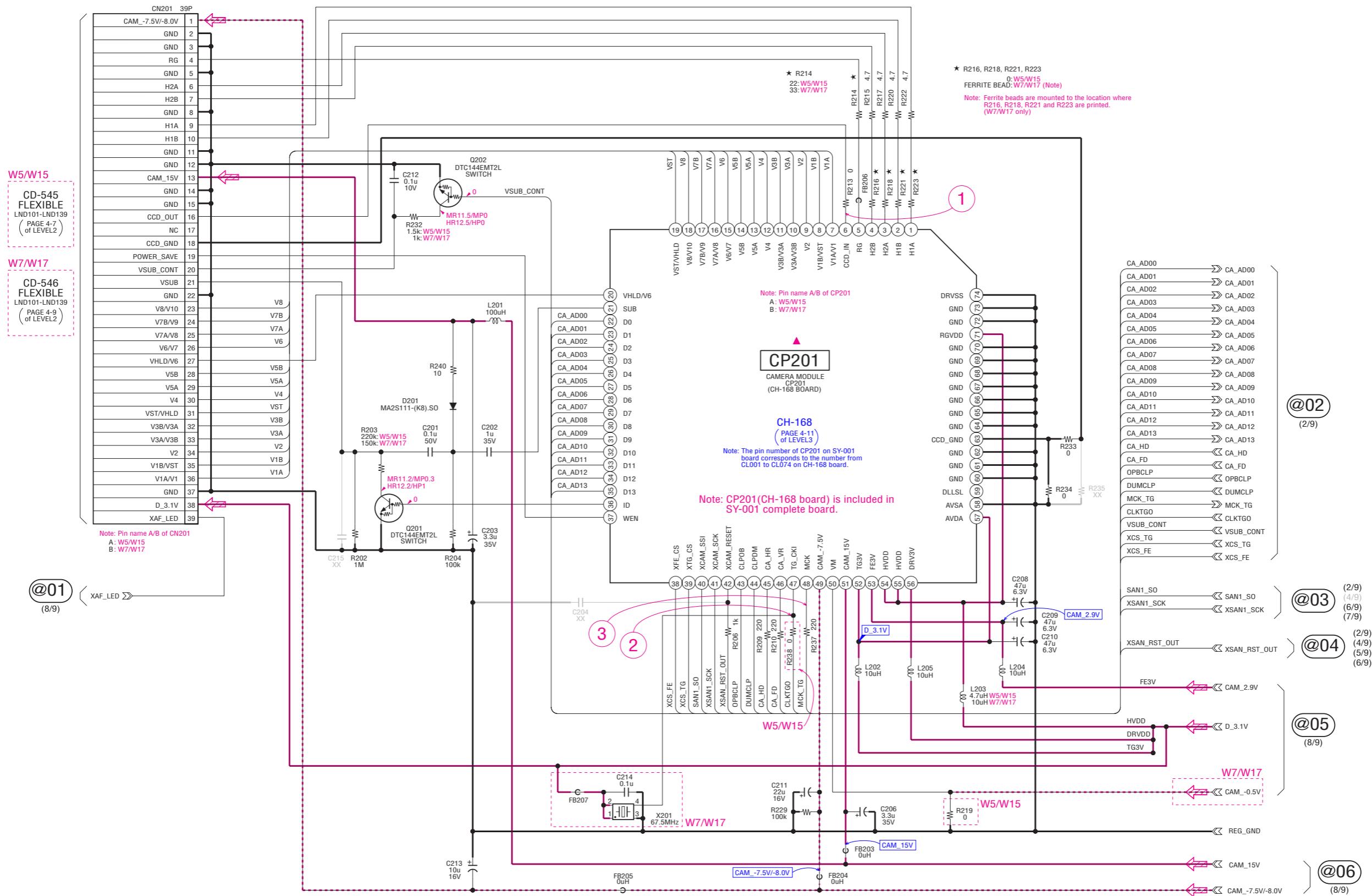
• Refer to page 4-42 for printed wiring board.



SY-001 BOARD (1/9) CAMERA MODULE (CH BLOCK)

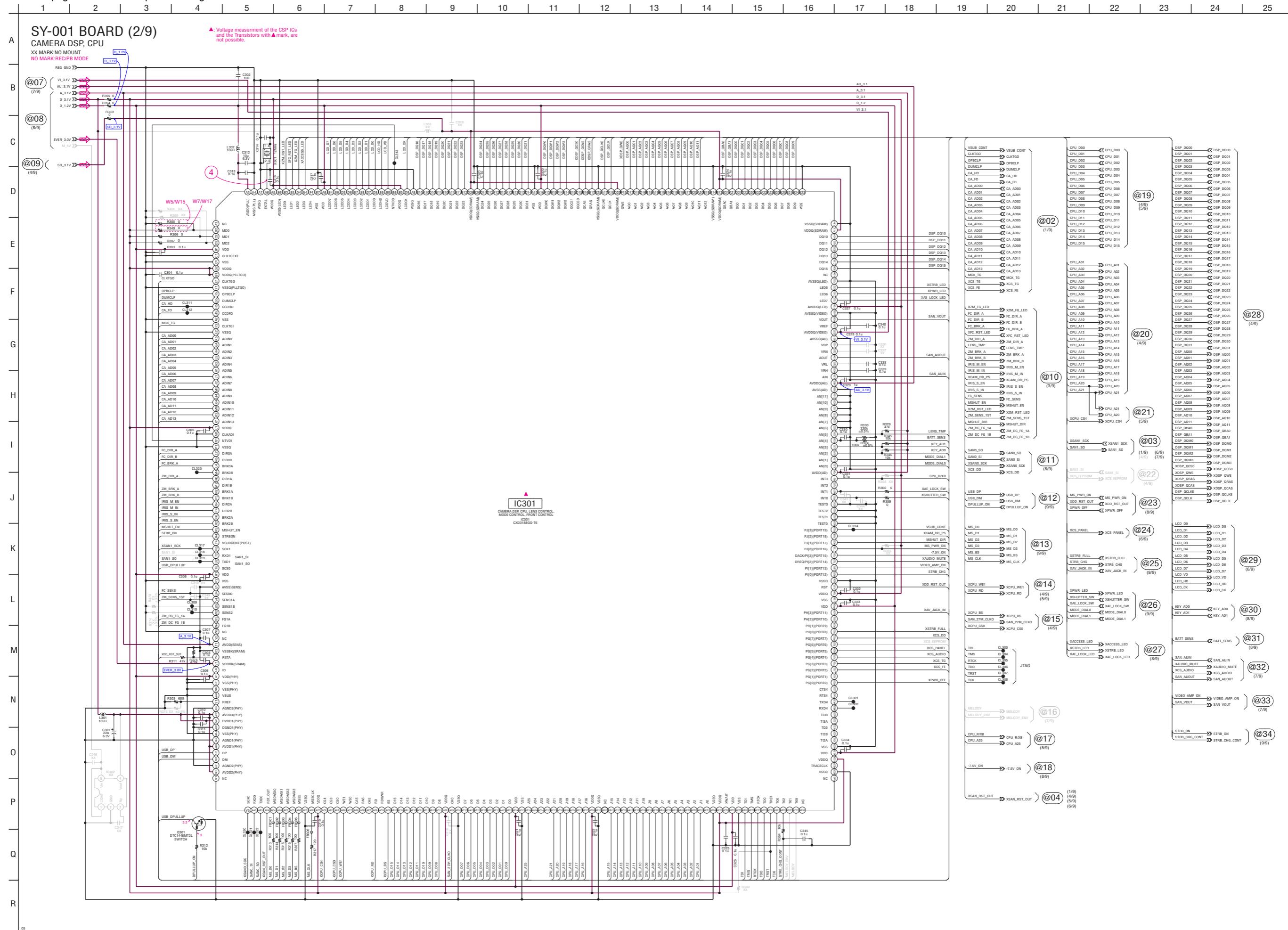
XX MARK:NO MOUNT NO MARK:REC/PB MODE
MR:W5/W15 REC MODE
HR:W7/W17 REC MODE
MP:W5/W15 PB MODE
HP:W7/W17 PR MODE

▲: Voltage measurement of the CSP ICs and the Transistors with ▲ mark, are not possible.



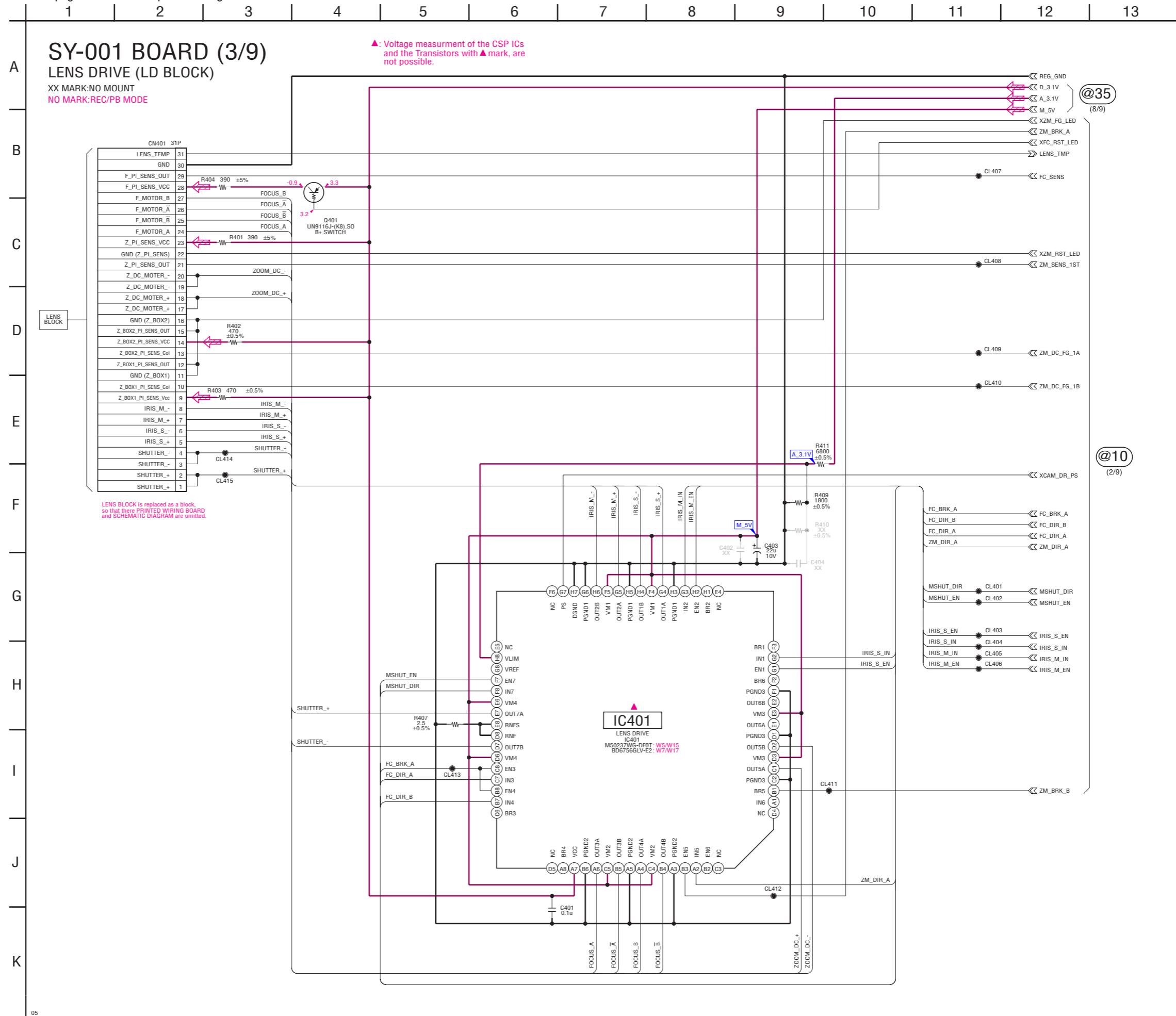
For Schematic Diagram

- Refer to page 4-39 to 4-42 for printed wiring board.



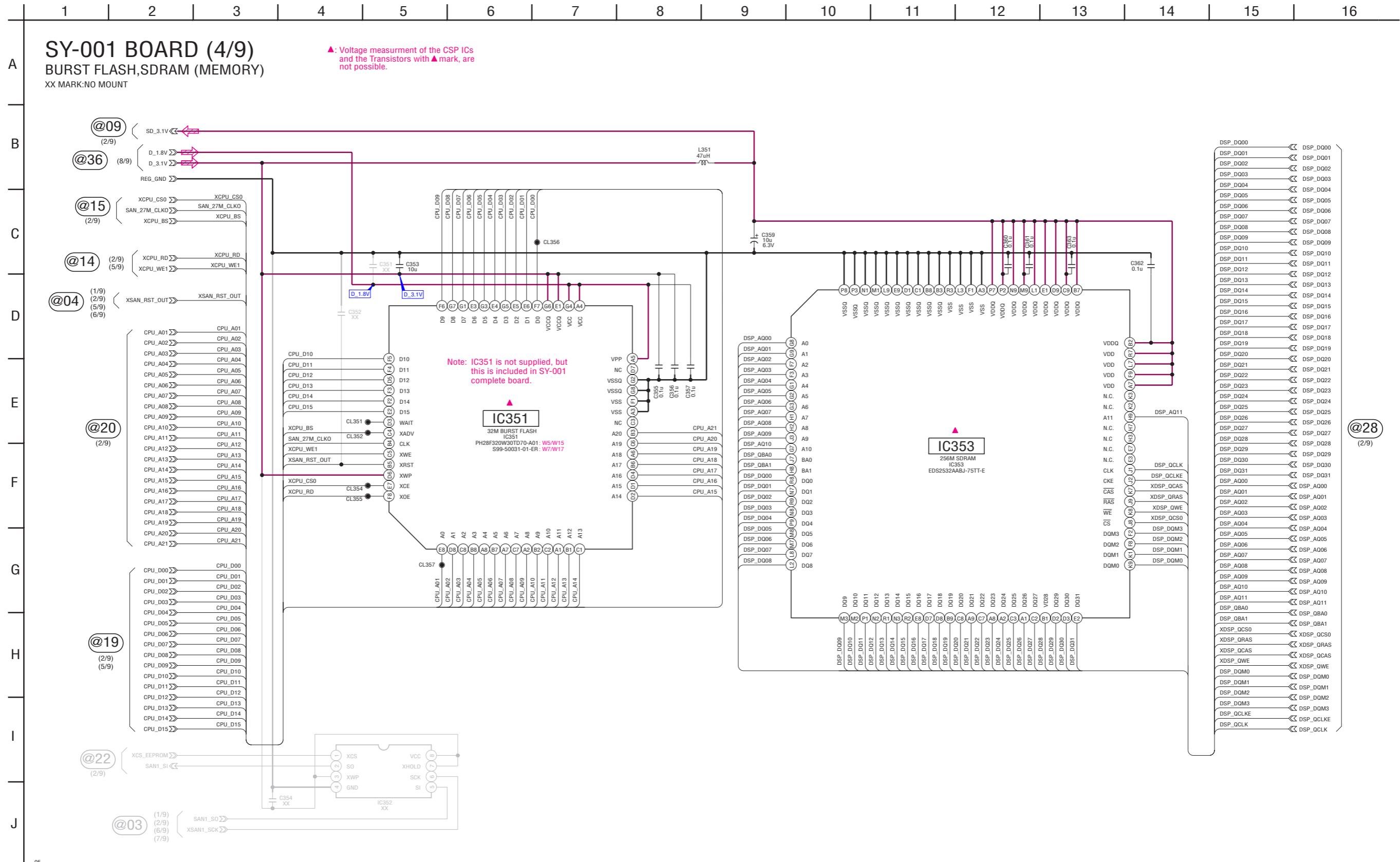
For Schematic Diagram

- Refer to page 4-39 to 4-42 for printed wiring board



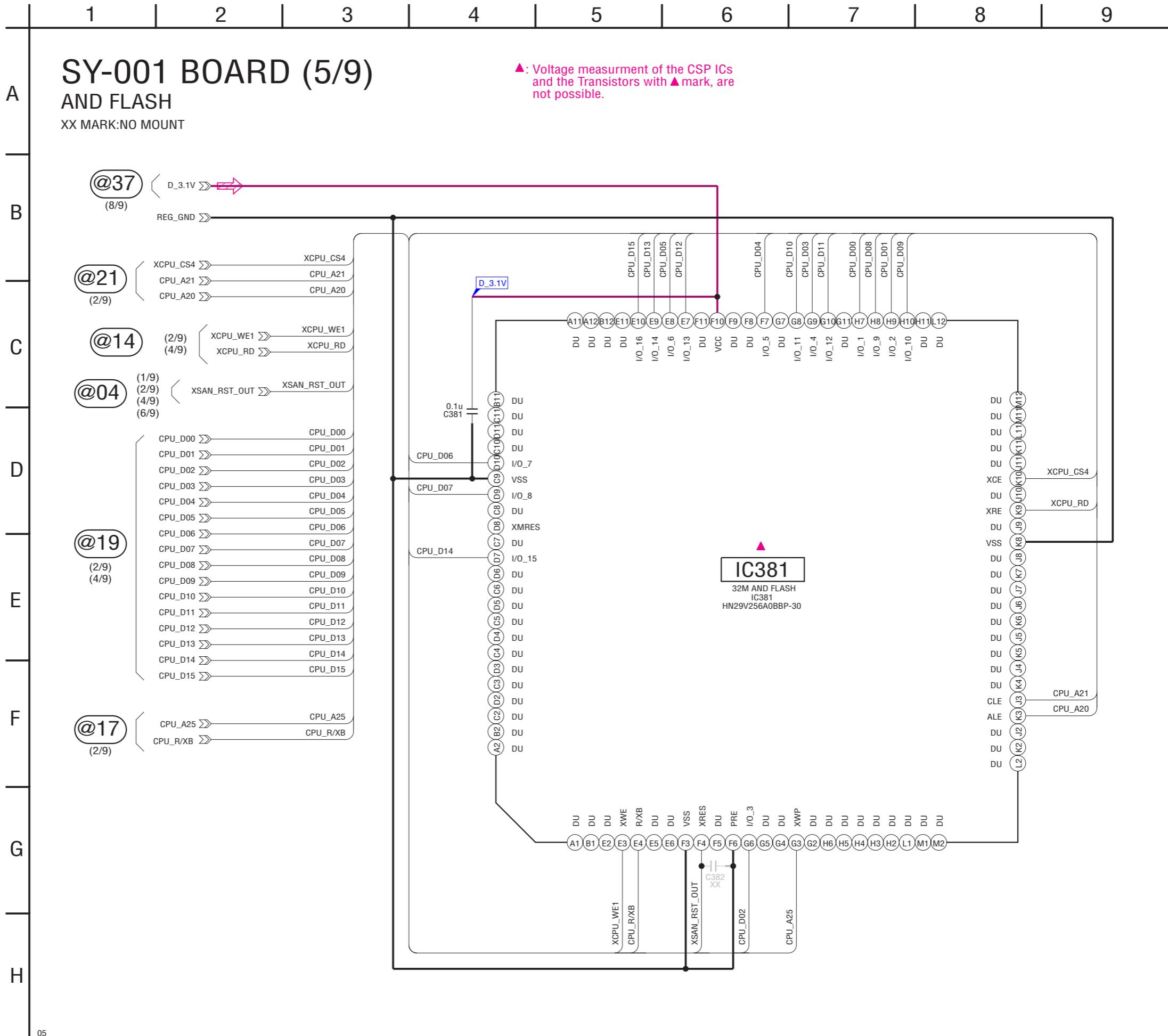
For Schematic Diagram

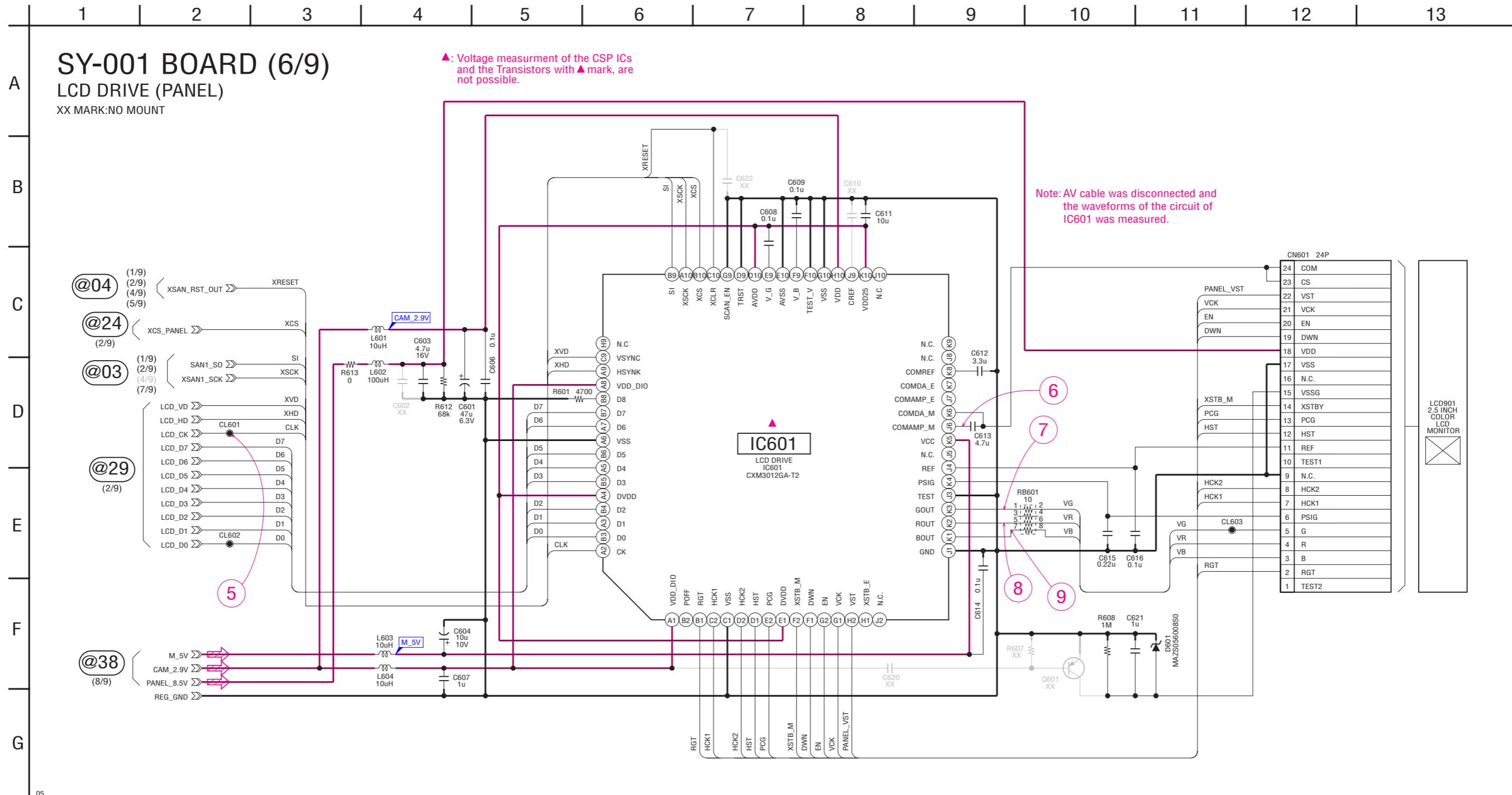
• Refer to page 4-39 to 4-42 for printed wiring board.



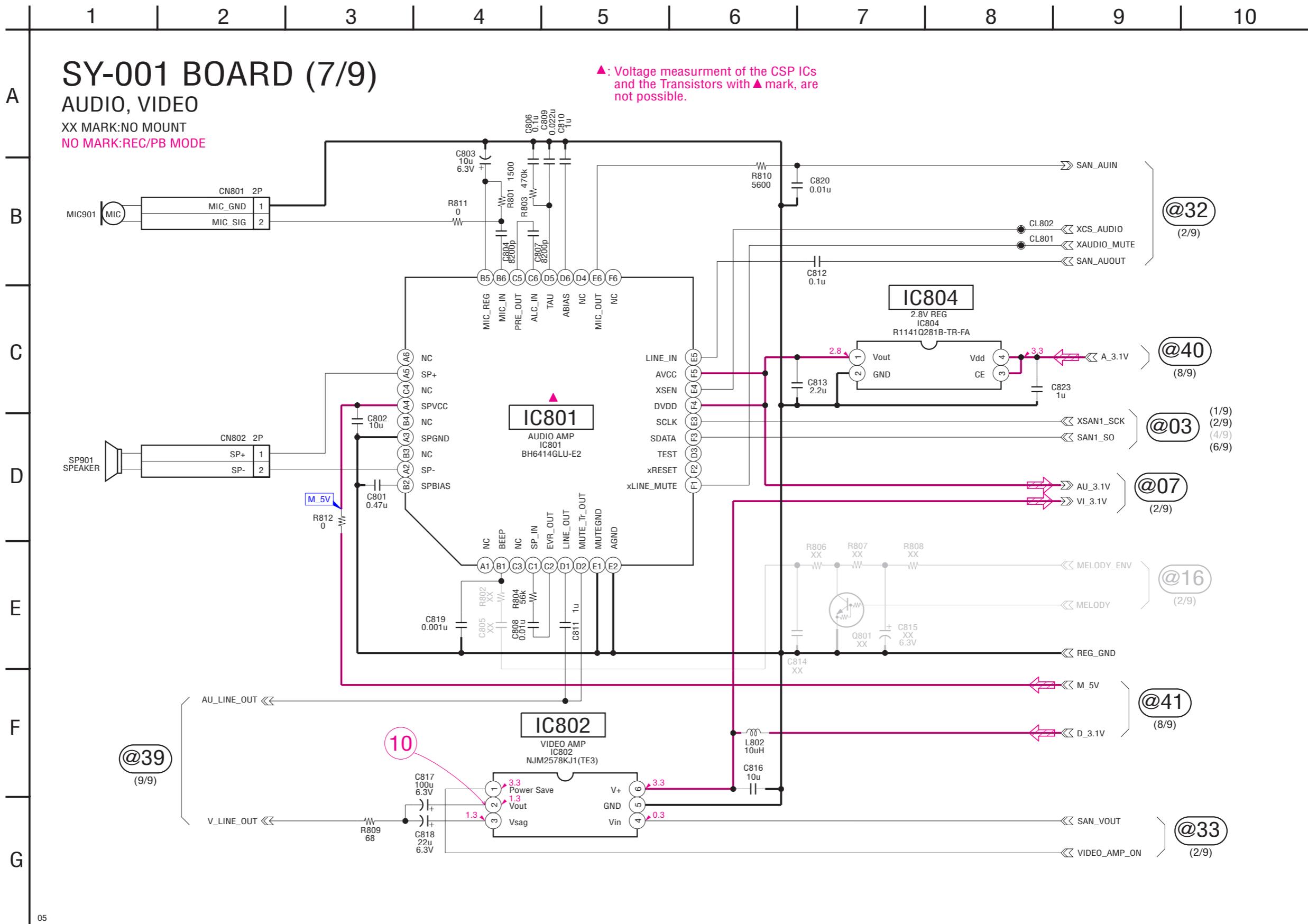
For Schematic Diagram

- Refer to page 4-39 to 4-42 for printed wiring board.



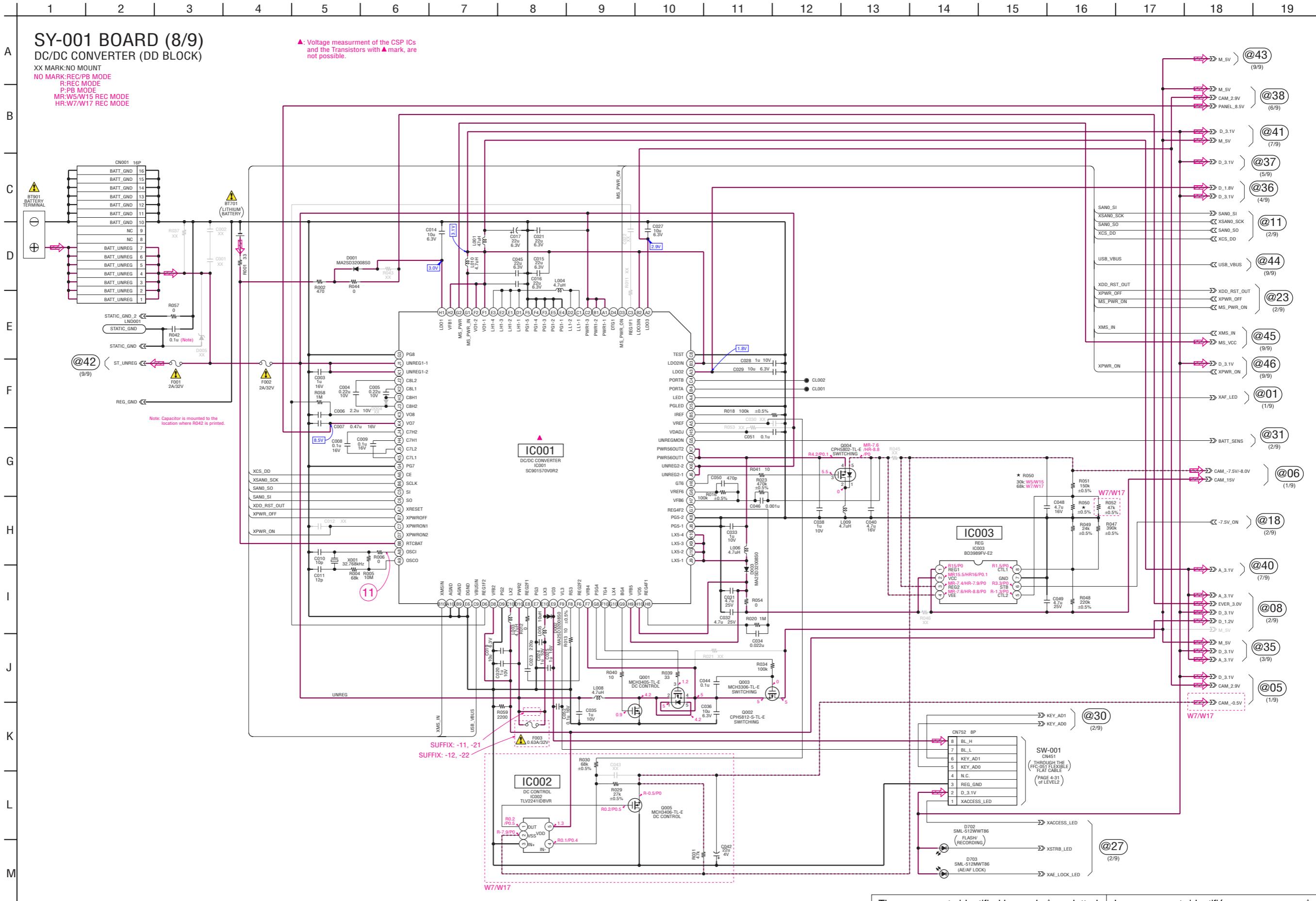


For Schematic Diagram
• Refer to page 4-39 to 4-42 for printed wiring board.



For Schematic Diagram

- Refer to page 4-39 to 4-42 for printed wiring board.



The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

For Schematic Diagram

• Refer to page 4-39 to 4-42 for printed wiring board.

1 2 3 4 5 6 7 8 9 10

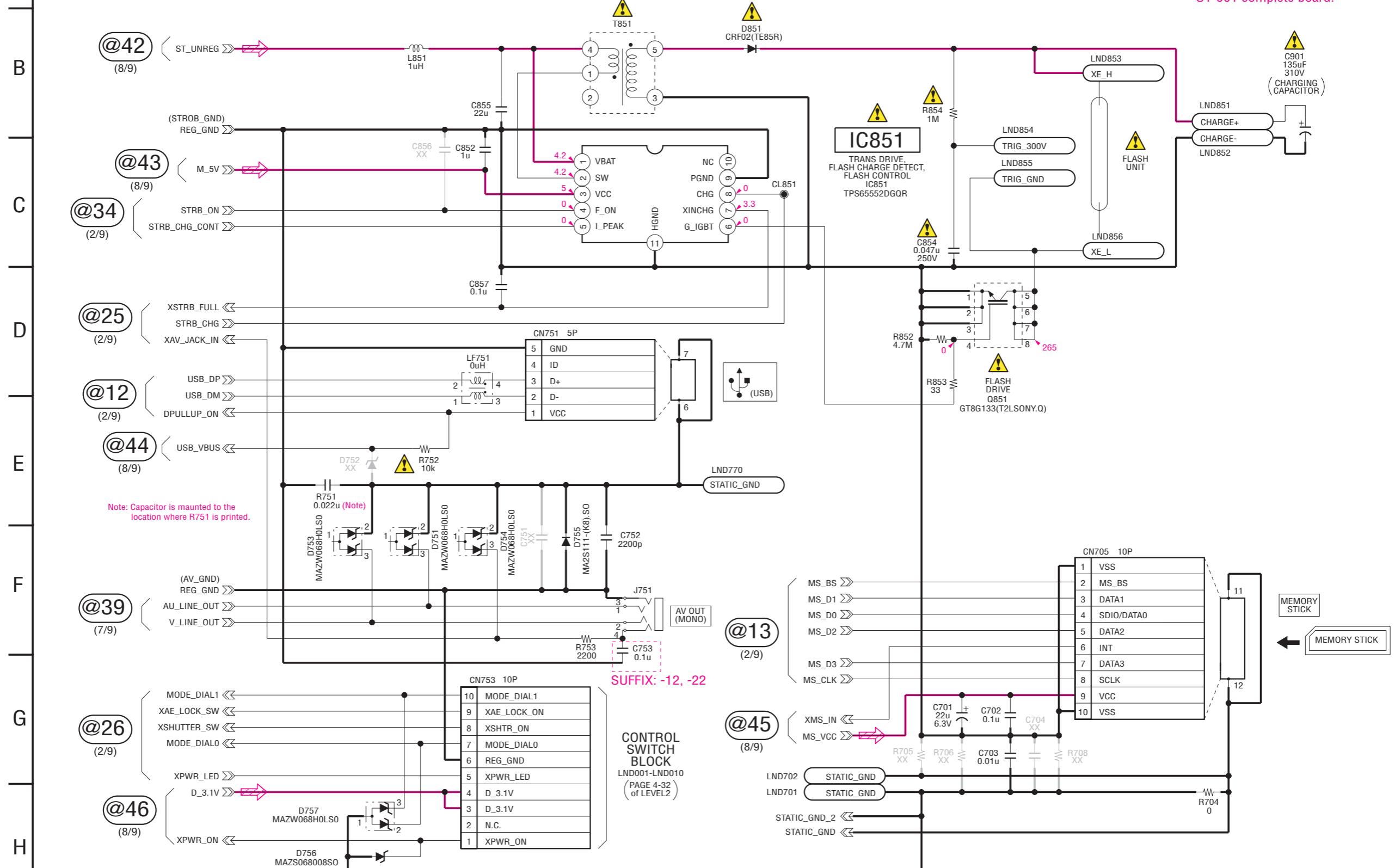
SY-001 BOARD (9/9)

FLASH DRIVE, CONNECTOR

XX MARK: NO MOUNT

NO MARK: REC/PB MODE

Note: C901 is not included in SY-001 complete board.



4-3. PRINTED WIRING BOARDS

Link

- CH-168 BOARD
- SY-001 BOARD (SIDE A)

- SY-001 BOARD (SIDE B)

- COMMON NOTE FOR PRINTED WIRING BOARDS

- WAVEFORMS

- MOUNTED PARTS LOCATION

Board Name	Function
CH-168 (included in SY-001)	CCD SIGNAL PROCESS
SY-001 (Including CH-168)	CAMERA MODULE, CAMERA DSP, CPU, LENS DRIVE, BURST FLASH, SDRAM, AND FLASH, LCD DRIVE, AUDIO, VIDEO, DC/DC CONVERTER, FLASH DRIVE, CONNECTOR

4-3. PRINTED WIRING BOARDS

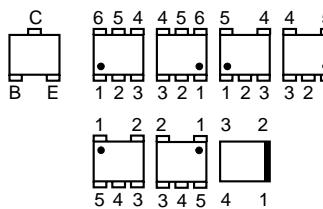
4-3. PRINTED WIRING BOARDS

THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS

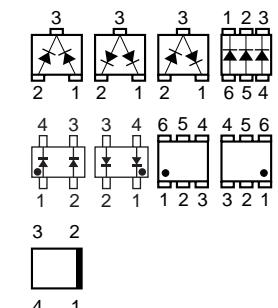
- : Uses unleaded solder.
- : Circuit board
- : Flexible board
- Pattern from the side which enables seeing.
 : pattern of the rear side
(The other layers' patterns are not indicated)
- Through hole is omitted.
- Circled numbers refer to waveforms.
- There are a few cases that the part printed on diagram isn't mounted in this model.
- : panel designation

- Chip parts.

Transistor



Diode

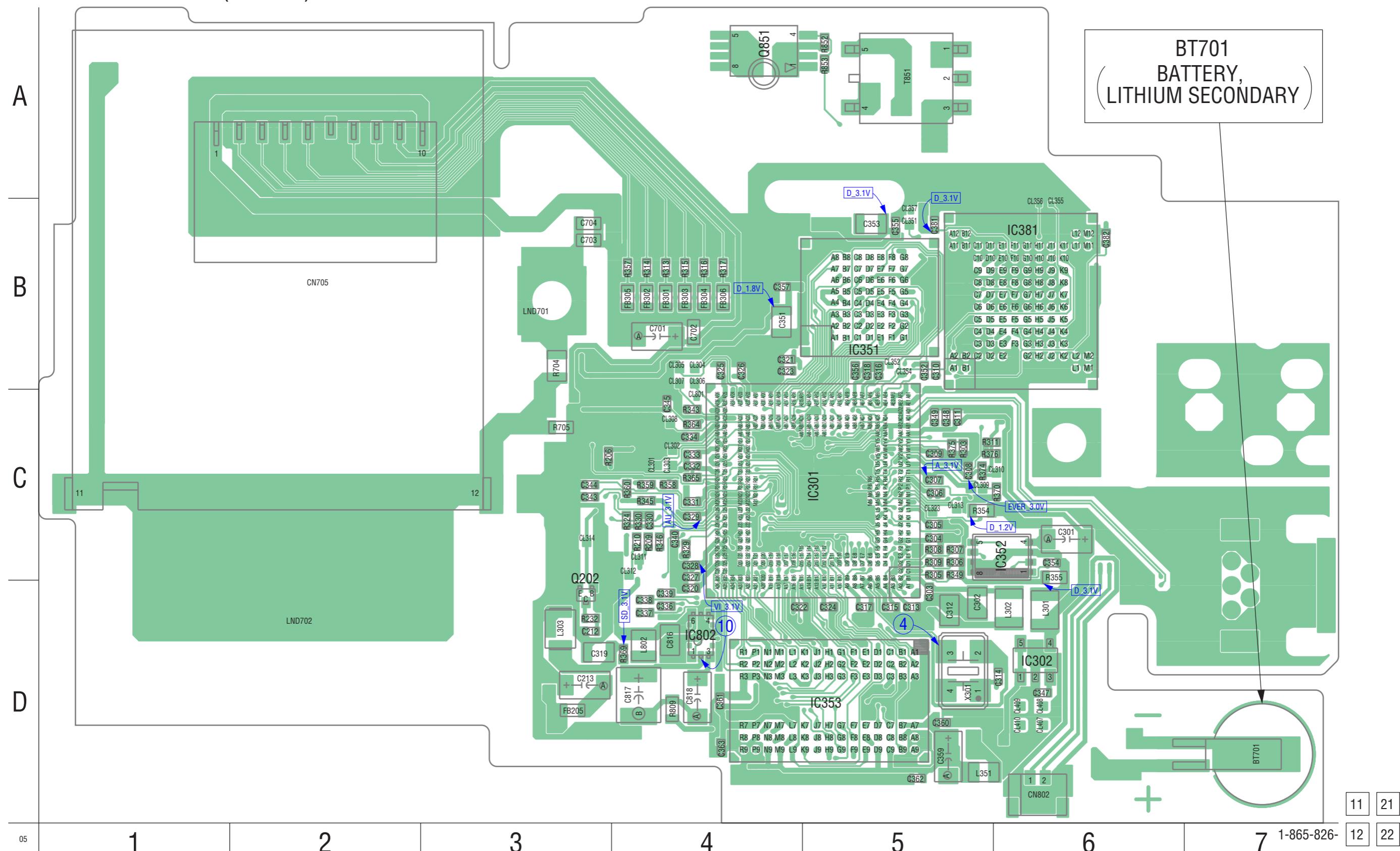


Board Name	Waveforms (Shown on page)	Parts Location (Shown on page)	Pattern	
			Total Number of Layers	Layers Not Indicated
CH-168	—	—	8 layers	2 to 7 layers
SY-001	4-45, 4-46	4-48	8 layers	2 to 7 layers

Note for Printed Wiring Board (See page 4-35)

 : Uses unleaded solder.

SY-001 BOARD (SIDE A)

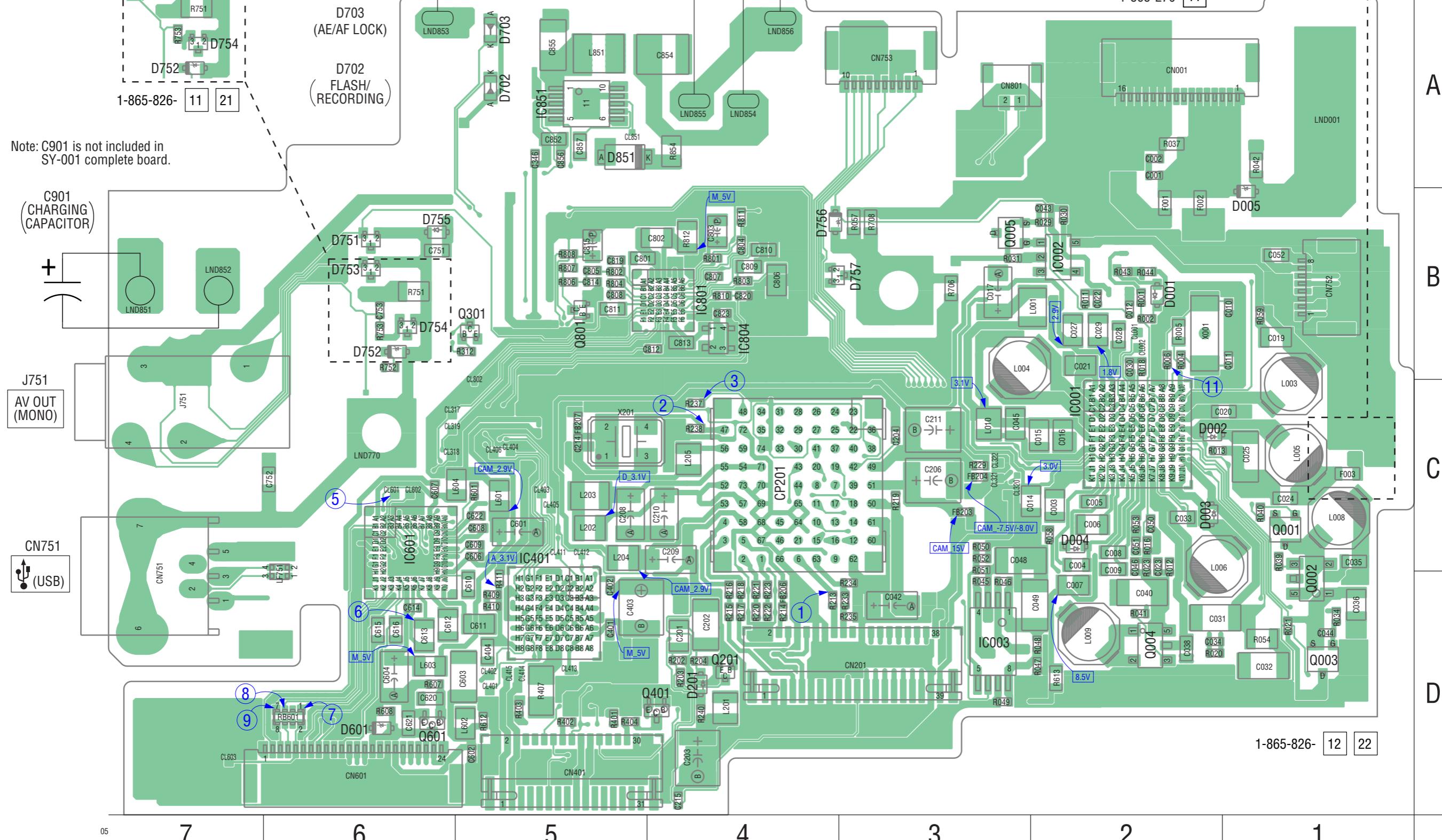


Note for Printed Wiring Board (See page 4-35).

U : Uses unleaded solder.

SY-001 BOARD (SIDE B)

Note: C901 is not included in SY-001 complete board.

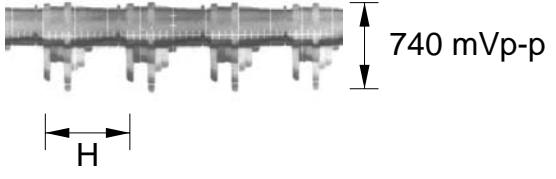
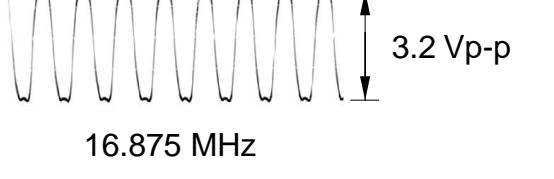
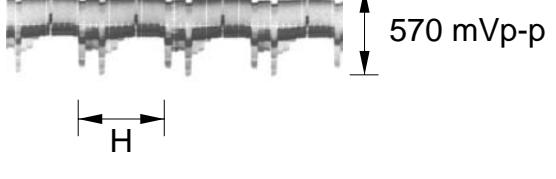
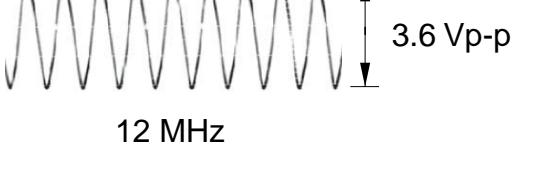
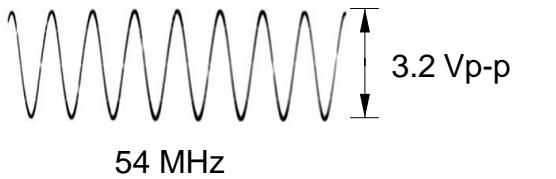
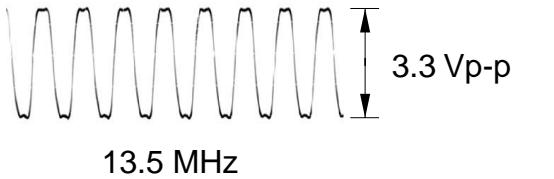
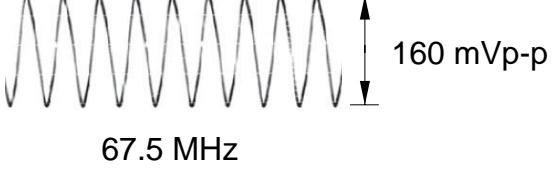
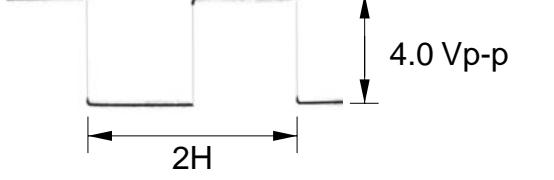


CH-168 BOARD (SIDE A) (SIDE B) Note: CP201 (CH-168 board) is included in SY-001 complete board.

Note: CP201 (CH-168 board) is included in SY-001 complete board.

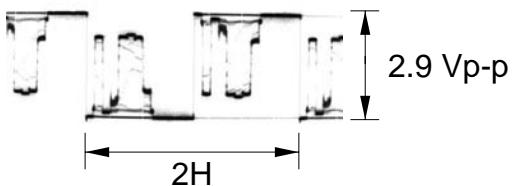
4-4. WAVEFORMS

SY-001 BOARD (1/2)

<p>① DSC-W5/W15</p>  <p>740 mVp-p</p> <p>R213 (CP201 ⑥) REC</p>	<p>③ DSC-W7/W17</p>  <p>3.2 Vp-p</p> <p>16.875 MHz</p> <p>R237 (CP201 ⑧) REC</p>
<p>① DSC-W7/W17</p>  <p>570 mVp-p</p> <p>R213 (CP201 ⑥) REC</p>	<p>④</p>  <p>3.6 Vp-p</p> <p>12 MHz</p> <p>X301 (IC301 ⑩) REC/PB</p>
<p>② DSC-W5/W15</p>  <p>3.2 Vp-p</p> <p>54 MHz</p> <p>R238 (CP201 ⑦) REC/PB</p>	<p>⑤</p>  <p>3.3 Vp-p</p> <p>13.5 MHz</p> <p>CL601 (IC601 ⑨) REC/PB</p>
<p>② DSC-W7/W17</p>  <p>160 mVp-p</p> <p>67.5 MHz</p> <p>X201 (CP201 ⑦) REC/PB</p>	<p>⑥</p>  <p>4.0 Vp-p</p> <p>2H</p> <p>C613 (IC601 ⑯) REC/PB</p>
<p>③ DSC-W5/W15</p>  <p>3.6 Vp-p</p> <p>13.5 MHz</p> <p>R237 (CP201 ⑧) REC</p>	<p>⑦</p>  <p>2.9 Vp-p</p> <p>2H</p> <p>RB601 ① (IC601 ⑬) REC/PB</p>

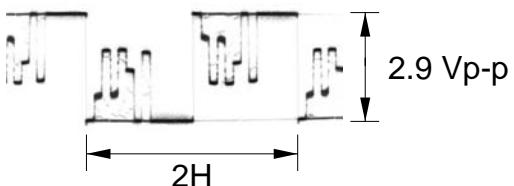
SY-001BOARD (2/2)

(8)



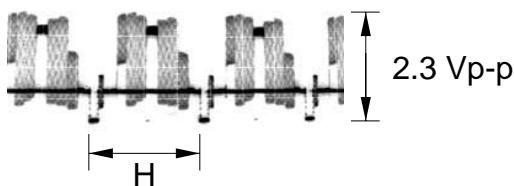
RB601 ⑤ (IC601 ⑫) REC/PB

(9)



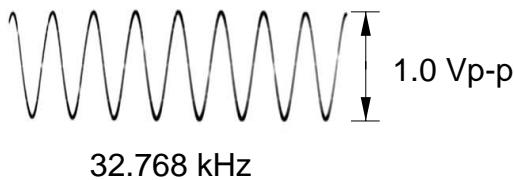
RB601 ⑦ (IC601 ⑬) REC/PB

(10)



IC802 ② REC/PB (A/V JACK IN)

(11)



X001 (IC001 ⑩) REC/PB

4-3. PRINTED WIRING BOARDS

4-5. MOUNTED PARTS LOCATION

no mark : side A
 * mark : side B

SY-001 BOARD

BT701	D-7	C325	B-4	* C820	B-4	* L203	C-5	R232	D-3
* C001	A-2	C326	B-4	* C823	B-4	* L204	C-5	* R233	D-3
* C002	A-2	C327	C-4	* C852	A-5	* L205	C-4	* R234	D-3
* C003	C-2	C328	C-4	* C854	A-4	L301	D-6	* R235	D-3
* C004	C-2	C329	C-4	* C855	A-5	L302	D-6	* R237	C-4
* C005	C-2	C330	C-4	* C856	A-5	L303	D-3	* R238	C-4
* C006	C-2	C331	C-4	* C857	A-5	L351	D-5	* R240	D-4
* C007	D-2	C332	C-4	* C901	B-7	* L601	C-5	R303	C-5
* C008	C-2	C333	C-4	* C902	B-7	* L602	D-5	R305	C-5
* C009	C-2	C334	C-4	* CN001	A-2	* L603	D-6	R306	C-5
* C010	B-1	C336	D-4	* CN201	D-3	* L604	C-5	R307	C-5
* C011	B-1	C337	D-4	* CN401	D-5	L802	D-4	R308	C-5
* C012	B-2	C338	D-4	* CN601	D-6	* L851	A-5	R309	C-5
* C014	C-2	C339	D-4	CN705	B-2			R311	C-5
* C015	C-2	C340	C-4	* CN751	D-7	* LF751	D-6	* R312	B-5
* C016	C-2	C343	C-3	* CN752	B-1			R313	B-4
* C017	B-3	C344	C-3	* CN753	A-3	* Q001	C-1	R314	B-4
* C019	B-1	C345	C-4	* CN801	A-3	* Q002	D-1	R315	B-4
* C020	C-2	* C346	A-5	CN802	D-6	* Q003	D-1	R316	B-4
* C021	B-2	C347	D-6			* Q004	D-2	R317	B-4
* C022	B-2	C348	C-5	* CP201	C-4	* Q005	B-3	R324	C-4
* C023	B-2	C349	C-5			* Q201	D-4	R329	C-4
* C024	C-2	C351	B-4	* D001	B-2	Q202	D-3	R330	C-4
* C025	C-1	C352	B-5	* D002	C-2	* Q301	B-5	R343	C-4
* C027	C-1	C353	B-5	* D003	C-2	* Q401	D-4	R345	C-4
* C028	B-2	C354	C-6	* D004	C-2	* Q601	D-6	R346	C-4
* C029	B-2	C355	B-5	* D005	B-1	* Q801	B-5	R349	C-5
* C030	B-2	C356	B-5	* D201	D-4	Q851	A-4	R354	C-5
* C031	D-2	C357	B-4	* D601	D-6			R355	C-6
* C032	D-1	C359	D-5	* D702	A-5	* R001	B-2	R357	B-4
* C033	C-2	C360	D-5	* D703	A-5	* R002	B-2	R358	C-4
* C034	D-2	C361	D-4	* D751	B-6	* R004	B-2	R359	C-4
* C035	C-1	C362	D-5	* D752	B-6	* R005	B-2	R360	C-4
* C036	D-1	C363	D-4	* D753	B-6	* R006	B-2	R364	C-4
* C038	D-2	C381	B-5	* D754	B-6	* R011	B-2	R365	C-4
* C040	D-2	* C401	D-5	* D755	B-6	* R012	C-2	R369	D-4
* C042	D-3	* C402	D-5	* D756	B-4	* R013	C-2	R370	C-6
* C043	B-2	* C403	D-5	* D757	B-3	* R016	C-2	R374	C-5
* C044	D-1	* C404	D-5	* D851	A-5	* R018	B-2	R375	C-5
* C045	C-3	* C601	C-5	* F001	B-2	* R020	D-2	R376	C-5
* C046	C-2	* C602	D-5	* F002	B-2	* R021	D-1	* R401	D-5
* C048	C-3	* C603	D-5	* F003	C-1	* R023	C-2	* R402	D-5
* C049	D-2	* C604	D-6			* R029	B-2	* R403	D-5
* C050	C-2	* C606	C-5	* FB203	C-3	* R030	B-2	* R404	D-5
* C051	C-2	* C607	C-6	* FB204	C-3	* R031	B-3	* R407	D-5
* C052	B-1	* C608	C-5	FB205	D-3	* R034	D-1	* R409	D-5
* C201	D-4	* C609	C-5	* FB206	D-4	* R037	A-2	* R410	D-5
* C202	D-4	* C610	D-5	* FB207	C-5	* R039	C-1	* R411	D-5
* C203	D-4	* C611	D-5	FB301	B-4	* R040	C-1	* R601	C-5
* C204	C-3	* C612	D-6	FB302	B-4	* R041	D-2	* R607	D-6
* C206	C-3	* C613	D-6	FB303	B-4	* R042	A-1	* R608	D-6
* C208	C-5	* C614	D-6	FB304	B-4	* R043	B-2	* R612	D-5
* C209	C-4	* C615	D-6	FB305	B-4	* R044	B-2	* R613	D-2
* C210	C-4	* C616	D-6	FB306	B-4	* R045	D-3	R704	B-3
* C211	C-3	* C620	D-6			* R046	D-3	R705	C-3
C212	D-3	* C621	D-6	* IC001	C-2	* R047	D-2	* R706	B-3
C213	D-3	* C622	C-5	* IC002	B-2	* R048	D-2	* R708	B-3
* C214	C-5	C701	B-4	* IC003	D-3	* R049	D-3	* R751	B-6
* C215	D-4	C702	B-4	IC301	C-5	* R050	C-3	* R752	B-6
C301	C-6	C703	B-3	IC302	D-6	* R051	C-3	* R753	B-6
C302	D-5	C704	B-3	IC351	B-5	* R052	C-3	* R801	B-4
C303	D-5	* C751	B-6	IC352	C-6	* R053	C-2	* R802	B-5
C304	C-5	* C752	C-6	IC353	D-5	* R054	D-1	* R803	B-4
C305	C-5	* C753	B-6	IC381	B-6	* R057	B-3	* R804	B-5
C306	C-5	* C801	B-5	* IC401	D-5	* R058	C-2	* R806	B-5
C307	C-5	* C802	B-4	* IC601	C-6	* R059	B-1	* R807	B-5
C308	C-5	* C803	B-4	* IC801	B-4	* R202	D-4	* R808	B-5
C309	C-5	* C804	B-4	IC802	D-4	* R203	D-4	R809	D-4
C310	B-5	* C805	B-5	* IC804	B-4	* R204	D-4	* R810	B-4
C311	C-5	* C806	B-4	* IC851	A-5	R206	C-3	* R811	B-4
C312	D-5	* C807	B-4			R209	C-4	* R812	B-4
C313	D-5	* C808	B-5	* J751	C-7	R210	C-4	R852	A-5
C314	D-6	* C809	B-4			* R213	D-4	R853	A-5
C315	D-5	* C810	B-4	* L001	B-2	* R214	D-4	* R854	A-4
C316	B-5	* C811	B-5	* L003	C-1	* R215	D-4		
C317	D-5	* C812	B-4	* L004	B-3	* R216	D-4	* RB601	D-6
C318	B-5	* C813	B-4	* L005	C-1	* R217	D-4		
C319	D-3	* C814	B-5	* L006	C-2	* R218	D-4	T851	A-5
C320	D-4	* C815	B-5	* L008	C-1	* R219	C-3		
C321	B-4	C816	D-4	* L009	D-2	* R220	D-4	* X001	B-2
C322	D-4	C817	D-4	* L010	C-3	* R221	D-4	* X201	C-5
C323	B-4	C818	D-4	* L021	D-4	* R222	D-4	X301	D-5
C324	D-5	* C819	B-5	* L022	C-5	* R223	D-4		
						* R229	C-3		

5. REPAIR PARTS LIST

NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- CAPACITORS:
uF: μ F
- COILS
uH: μ H
- RESISTORS
All resistors are in ohms.
METAL: metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F: nonflammable
- SEMICONDUCTORS
In each case, u: μ , for example:
uA...: μ A..., uPA..., μ PA...,
uPB..., μ PB..., uPC..., μ PC...,
uPD..., μ PD...
- Abbreviation
AR : Argentine model
AUS : Australian model
BR : Brazilian model
CH : Chinese model
CND : Canadian model
HK : Hong Kong model
J : Japanese model
JE : Tourist model
KR : Korean model

When indicating parts by reference number,
please include the board name.

The components identified by mark \triangle or
dotted line with mark \triangle are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque
 \triangle sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant
le numéro spécifié.

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
CP201	A-1096-988-A	CH-168 BOARD, COMPLETE (W5/W15)
CP201	A-1096-989-A	CH-168 BOARD, COMPLETE (W7/W17)

(CH-168 board (CP201) is included in SY-001 complete board.)		

< CAPACITOR >

C002	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C005	1-100-504-91	CERAMIC CHIP	0.1uF	20%	6.3V
C006	1-100-504-91	CERAMIC CHIP	0.1uF	20%	6.3V
C007	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C008	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C009	1-100-504-91	CERAMIC CHIP	0.1uF	20%	6.3V
C010	1-100-504-91	CERAMIC CHIP	0.1uF	20%	6.3V
C011	1-100-504-91	CERAMIC CHIP	0.1uF	20%	6.3V
C012	1-100-504-91	CERAMIC CHIP	0.1uF	20%	6.3V
C013	1-100-504-91	CERAMIC CHIP	0.1uF	20%	6.3V
C015	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C018	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C019	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C020	1-128-632-91	CERAMIC CHIP	0.01uF	10%	6.3V
C024	1-100-504-91	CERAMIC CHIP	0.1uF	20%	6.3V
C025	1-100-504-91	CERAMIC CHIP	0.1uF	20%	6.3V
C026	1-100-505-11	CERAMIC CHIP	0.1uF	20%	16V
C027	1-100-505-11	CERAMIC CHIP	0.1uF	20%	16V

< FERRITE BEAD >

FB001	1-469-581-21	INDUCTOR, FERRITE BEAD (1005)
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< IC >

IC101	(Not supplied)	IC	CXD3434AGA-T4 (W5/W15)
IC101	(Not supplied)	IC	CXD3436GA-T4 (W7/W17)

< RESISTOR >

R003	1-218-941-81	RES-CHIP	100	5%	1/16W
R008	1-240-683-91	METAL CHIP	100	5%	1/20W

Ref. No.	Part No.	Description					Ref. No.	Part No.	Description				
	A-1096-995-A	SY-001 BOARD, COMPLETE (SERVICE) (GP1)	(W5: J)				C044	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
	A-1096-996-A	SY-001 BOARD, COMPLETE (SERVICE) (GP2)	(W5: US, CND, AUS/W15: AUS)				C045	1-100-611-91	CERAMIC CHIP	22uF	20%	6.3V	
	A-1096-997-A	SY-001 BOARD, COMPLETE (SERVICE) (GP1)	(W7: J)				C046	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V	
	A-1096-998-A	SY-001 BOARD, COMPLETE (SERVICE) (GP2)	(W7: US, CND, AUS/W17: AUS)				C048	1-127-820-11	CERAMIC CHIP	4.7uF	10%	16V	
	A-1097-361-A	SY-001 BOARD, COMPLETE (SERVICE) (GP3)	(W5: AEP, UK/W15: AEP, UK)				C049	1-100-671-11	CERAMIC CHIP	4.7uF	20%	25V	
	A-1097-362-A	SY-001 BOARD, COMPLETE (SERVICE) (GP4)	(W5: AR, BR, E/W15:E)				C050	1-164-935-11	CERAMIC CHIP	470PF	10%	50V	
	A-1097-363-A	SY-001 BOARD, COMPLETE (SERVICE) (GP5)	(W5: CH, HK, KR, JE/W15: CH, HK, KR, JE)				C051	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
	A-1097-364-A	SY-001 BOARD, COMPLETE (SERVICE) (GP3)	(W7: AEP, UK/W17: AEP, UK)				C052	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
	A-1097-365-A	SY-001 BOARD, COMPLETE (SERVICE) (GP4)	(W7: AR, BR, E/W17: E)				C201	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V	
	A-1097-366-A	SY-001 BOARD, COMPLETE (SERVICE) (GP5)	(W7: CN, HK, KR, JE/W17: HK, KR, JE)				C202	1-137-988-91	CERAMIC CHIP	1uF	10%	35V	
	***** (This complete board is including CP201 (CH-168 board).)						C203	1-113-992-11	TANTAL. CHIP	3.3uF	20%	35V	
	(This complete board is not including C901 (charging capacitor).)						C206	1-113-992-11	TANTAL. CHIP	3.3uF	20%	35V	
	*****						C208	1-100-539-91	TANTAL. CHIP	47uF	20%	6.3V	
							C209	1-100-539-91	TANTAL. CHIP	47uF	20%	6.3V	
							C210	1-100-539-91	TANTAL. CHIP	47uF	20%	6.3V	
							C211	1-119-751-11	TANTAL. CHIP	22uF	20%	16V	
							C212	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
							C213	1-137-910-11	TANTAL. CHIP	10uF	20%	16V	
							C214	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
												(W7/W17)	
CP201	A-1096-988-A	CH-168 BOARD, COMPLETE (W5/W15)					C301	1-119-750-11	TANTAL. CHIP	22uF	20%	6.3V	
CP201	A-1096-989-A	CH-168 BOARD, COMPLETE (W7/W17)					C302	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V	
	< BATTERY >						C303	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
	< CAPACITOR >						C304	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
							C305	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
	< CAPACITOR >						C306	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
△BT701	1-528-999-61	BATTERY, LITHIUM SECONDARY					C307	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
							C308	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
							C309	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
							C310	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
							C311	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
							C312	1-137-710-11	CERAMIC CHIP	10uF	20%	6.3V	
							C313	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
							C314	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
							C315	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
							C316	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
							C317	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
							C320	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
							C321	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
							C322	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
							C323	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
							C324	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
							C325	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
							C326	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
							C327	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
							C328	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
							C329	1-100-506-91	CERAMIC CHIP	1uF	20%	6.3V	
							C330	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
							C331	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
							C332	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
							C333	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
							C334	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
							C338	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
							C339	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
							C340	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
							C345	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
							C353	1-137-710-11	CERAMIC CHIP	10uF	20%	6.3V	
	CO42	1-104-847-11	TANTAL. CHIP	22uF	20%	4V							

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description		Ref. No.	Part No.	Description	
		< JACK >		R031	1-218-973-11	RES-CHIP	47K 5% 1/16W (W7/W17)
J751	1-793-620-41	JACK (AV OUT (MONO))		R034	1-218-977-11	RES-CHIP	100K 5% 1/16W
		< COIL >		R039	1-218-935-11	RES-CHIP	33 5% 1/16W
L001	1-400-145-21	INDUCTOR	47uH	R040	1-218-929-11	RES-CHIP	10 5% 1/16W
L003	1-456-499-11	INDUCTOR	4.7uH	R041	1-218-929-11	RES-CHIP	10 5% 1/16W
L004	1-456-499-11	INDUCTOR	4.7uH	R042	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V (Note 1)
L005	1-456-500-11	INDUCTOR	10uH	R044	1-218-990-11	SHORT CHIP	0
L006	1-456-499-11	INDUCTOR	4.7uH	R047	1-208-949-11	METAL CHIP	390K 0.5% 1/16W
L008	1-456-499-11	INDUCTOR	4.7uH	R048	1-208-943-11	METAL CHIP	220K 0.5% 1/16W
L009	1-456-499-11	INDUCTOR	4.7uH	R049	1-208-920-81	METAL CHIP	24K 0.5% 1/16W
L010	1-469-553-21	INDUCTOR	4.7uH	R050	1-208-922-11	METAL CHIP	30K 0.5% 1/16W
L201	1-469-561-21	INDUCTOR	100uH	R050	1-208-931-11	METAL CHIP	(W5/W15)
L202	1-469-555-21	INDUCTOR	10uH	R050	1-208-931-11	METAL CHIP	68K 0.5% 1/16W (W7/W17)
L203	1-400-073-21	INDUCTOR	4.7uH (W5/W15)	R051	1-208-939-11	METAL CHIP	150K 0.5% 1/16W
L203	1-469-967-21	INDUCTOR	10uH (W7/W17)	R052	1-208-927-11	METAL CHIP	47K 0.5% 1/16W (W7/W17)
L204	1-469-555-21	INDUCTOR	10uH	R054	1-216-295-91	SHORT CHIP	0
L205	1-469-555-21	INDUCTOR	10uH	R057	1-216-864-11	SHORT CHIP	0
L301	1-469-967-21	INDUCTOR	10uH	R058	1-218-989-11	RES-CHIP	1M 5% 1/16W
L302	1-469-967-21	INDUCTOR	10uH	R059	1-218-957-11	RES-CHIP	2.2K 5% 1/16W
L351	1-400-677-11	INDUCTOR	47uH	R202	1-218-989-11	RES-CHIP	1M 5% 1/16W
L601	1-469-570-11	INDUCTOR	10uH	R203	1-218-979-11	RES-CHIP	150K 5% 1/16W (W7/W17)
L602	1-469-847-11	INDUCTOR	100uH	R203	1-218-981-11	RES-CHIP	220K 5% 1/16W (W5/W15)
L603	1-469-570-11	INDUCTOR	10uH	R204	1-218-977-11	RES-CHIP	100K 5% 1/16W
L604	1-469-570-11	INDUCTOR	10uH	R206	1-218-953-11	RES-CHIP	1K 5% 1/16W
L802	1-469-555-21	INDUCTOR	10uH	R209	1-218-945-11	RES-CHIP	220 5% 1/16W
L851	1-412-026-11	INDUCTOR	1uH	R210	1-218-945-11	RES-CHIP	220 5% 1/16W
		< LINE FILTER >		R213	1-218-990-11	SHORT CHIP	0
LF751	1-456-583-11	COMMON MODE CHOKE COIL		R214	1-218-933-11	RES-CHIP	22 5% 1/16W (W5/W15)
		< TRANSISTOR >		R214	1-218-935-11	RES-CHIP	33 5% 1/16W (W7/W17)
Q001	8-729-056-01	TRANSISTOR	MCH3405-TL-E	R215	1-220-803-81	RES-CHIP	4.7 5% 1/16W
Q002	6-550-351-01	TRANSISTOR	CPH5812-S-TL-E	R216	1-218-990-11	SHORT CHIP	0 (W5/W15)
Q003	8-729-055-89	TRANSISTOR	MCH3306-TL-E	R216	1-400-723-11	INDUCTOR, FERRITE BEAD (1005) (Note 2)	(W7/W17)
Q004	8-729-053-76	TRANSISTOR	CPH5802-TL-E	R217	1-220-803-81	RES-CHIP	4.7 5% 1/16W
Q005	8-729-055-88	TRANSISTOR	MCH3406-TL-E (W7/W17)	R218	1-218-990-11	SHORT CHIP	0 (W5/W15)
Q201	6-550-119-01	TRANSISTOR	DTC144EMT2L	R218	1-400-723-11	INDUCTOR, FERRITE BEAD (1005) (Note 2)	(W7/W17)
Q202	6-550-119-01	TRANSISTOR	DTC144EMT2L	R219	1-218-990-11	SHORT CHIP	0 (W5/W15)
Q301	6-550-119-01	TRANSISTOR	DTC144EMT2L	R220	1-220-803-81	RES-CHIP	4.7 5% 1/16W
Q401	8-729-042-62	TRANSISTOR	UN9116J-(K8).SO	R221	1-218-990-11	SHORT CHIP	0 (W5/W15)
▲Q851	6-550-891-01	TRANSISTOR	GT8G133 (T2LSONY.Q)	R221	1-400-723-11	INDUCTOR, FERRITE BEAD (1005) (Note 2)	(W7/W17)
		< RESISTOR >		R222	1-220-803-81	RES-CHIP	4.7 5% 1/16W
R001	1-218-935-11	RES-CHIP	33 5% 1/16W	R223	1-218-990-11	SHORT CHIP	0 (W5/W15)
R002	1-218-949-11	RES-CHIP	470 5% 1/16W	R223	1-400-723-11	INDUCTOR, FERRITE BEAD (1005) (Note 2)	(W7/W17)
R004	1-218-975-11	RES-CHIP	68K 5% 1/16W				
R005	1-219-570-11	METAL CHIP	10M 5% 1/10W				
R006	1-218-990-11	SHORT CHIP	0				
R012	1-218-990-11	SHORT CHIP	0				
R013	1-208-635-11	METAL CHIP	10 0.5% 1/16W				
R016	1-208-935-11	METAL CHIP	100K 0.5% 1/16W				
R018	1-208-935-11	METAL CHIP	100K 0.5% 1/16W				
R020	1-218-989-11	RES-CHIP	1M 5% 1/16W				
R023	1-218-985-11	RES-CHIP	470K 5% 1/16W				
R029	1-218-970-11	RES-CHIP	27K 5% 1/16W (W7/W17)				
R030	1-208-931-11	METAL CHIP	68K 0.5% 1/16W (W7/W17)				

Note 1: Capacitor is mounted to the location where R042 is printed.

Note 2: Ferrite beads are mounted to the location where R216, R218, R221 and R223 are printed. (W7/W17 only)

The components identified by mark ▲ or dotted line with mark ▲ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ▲ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>		<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>					
R229	1-218-977-11	RES-CHIP	100K	5%	1/16W	△R854	1-216-121-11	RES-CHIP	1M	5%	1/10W
R232	1-218-953-11	RES-CHIP	1K	5%	1/16W (W7/W17)						< COMPOSITION CIRCUIT BLOCK >
R232	1-218-955-11	RES-CHIP	1.5K	5%	1/16W (W5/W15)	RB601	1-234-369-21	RES, NETWORK	10 (1005 x4)		
R233	1-218-990-11	SHORT CHIP	0								< TRANSFORMER >
R234	1-218-990-11	SHORT CHIP	0			△T851	1-443-648-21	TRANSFORMER, DC-DC CONVERTER			
R237	1-218-945-11	RES-CHIP	220	5%	1/16W						
R238	1-218-990-11	SHORT CHIP	0 (W5/W15)								< VIBRATOR >
R240	1-218-929-11	RES-CHIP	10	5%	1/16W	X001	1-795-029-11	VIBRATOR, CRYSTAL	(32.768kHz)		
R303	1-208-679-11	METAL CHIP	680	0.5%	1/16W	X201	1-813-434-21	OSCILLATOR, CRYSTAL	(67.5MHz) (W7/W17)		
R305	1-218-990-11	SHORT CHIP	0 (W5/W15)			X301	1-813-504-21	OSCILLATOR, CRYSTAL	(12MHz)		
R306	1-218-990-11	SHORT CHIP	0								
R307	1-218-990-11	SHORT CHIP	0								
R311	1-218-973-11	RES-CHIP	47K	5%	1/16W						
R312	1-218-965-11	RES-CHIP	10K	5%	1/16W						
R313	1-218-941-81	RES-CHIP	100	5%	1/16W						
R314	1-218-941-81	RES-CHIP	100	5%	1/16W						
R315	1-218-941-81	RES-CHIP	100	5%	1/16W						
R316	1-218-941-81	RES-CHIP	100	5%	1/16W						
R317	1-218-942-11	RES-CHIP	120	5%	1/16W						
R324	1-208-935-11	METAL CHIP	100K	0.5%	1/16W						
R329	1-218-973-11	RES-CHIP	47K	5%	1/16W						
R330	1-208-943-11	METAL CHIP	220K	0.5%	1/16W						
R345	1-218-965-11	RES-CHIP	10K	5%	1/16W						
R346	1-218-965-11	RES-CHIP	10K	5%	1/16W						
R349	1-218-990-11	SHORT CHIP	0 (W7/W17)								
R354	1-216-864-11	SHORT CHIP	0								
R355	1-216-864-11	SHORT CHIP	0								
R357	1-218-941-81	RES-CHIP	100	5%	1/16W						
R359	1-218-990-11	SHORT CHIP	0								
R360	1-218-990-11	SHORT CHIP	0								
R364	1-218-965-11	RES-CHIP	10K	5%	1/16W						
R369	1-218-990-11	SHORT CHIP	0								
R376	1-218-985-11	RES-CHIP	470K	5%	1/16W						
R401	1-218-948-11	RES-CHIP	390	5%	1/16W						
R402	1-208-675-11	METAL CHIP	470	0.5%	1/16W						
R403	1-208-675-11	METAL CHIP	470	0.5%	1/16W						
R404	1-218-948-11	RES-CHIP	390	5%	1/16W						
R407	1-245-558-11	METAL CHIP	2.5	0.5%	1/2W						
R409	1-208-893-11	METAL CHIP	1.8K	0.5%	1/16W						
R411	1-208-703-11	METAL CHIP	6.8K	0.5%	1/16W						
R601	1-218-961-11	RES-CHIP	4.7K	5%	1/16W						
R608	1-218-989-11	RES-CHIP	1M	5%	1/16W						
R612	1-218-975-11	RES-CHIP	68K	5%	1/16W						
R613	1-216-864-11	SHORT CHIP	0								
R704	1-216-295-91	SHORT CHIP	0								
R751	1-163-037-11	CERAMIC CHIP	0.022uF	10%	50V (Note)						
△R752	1-218-965-11	RES-CHIP	10K	5%	1/16W						
R753	1-218-957-11	RES-CHIP	2.2K	5%	1/16W						
R801	1-218-955-11	RES-CHIP	1.5K	5%	1/16W						
R803	1-218-985-11	RES-CHIP	470K	5%	1/16W						
R804	1-218-974-11	RES-CHIP	56K	5%	1/16W						
R809	1-216-807-11	METAL CHIP	68	5%	1/10W						
R810	1-218-962-11	RES-CHIP	5.6K	5%	1/16W						
R811	1-218-990-11	SHORT CHIP	0								
R812	1-216-295-91	SHORT CHIP	0								
R852	1-243-975-81	METAL CHIP	4.7M	5%	1/16W						
R853	1-218-935-11	RES-CHIP	33	5%	1/16W						

Note: Capacitor is mounted to the location where R751 is printed.

DSC-W5/W7/W15/W17

SONY®

LEVEL 3

SERVICE MANUAL

Ver 1.1 2005.12

DSC-W5/W7

US Model

Canadian Model

Argentine Model

Brazilian Model

Japanese Model

DSC-W5/W7/W15/W17

AEP Model

UK Model

E Model

Australian Model

Hong Kong Model

Korea Model

Tourist Model

DSC-W5/W7/W15

Chinese Model

SUPPLEMENT-1

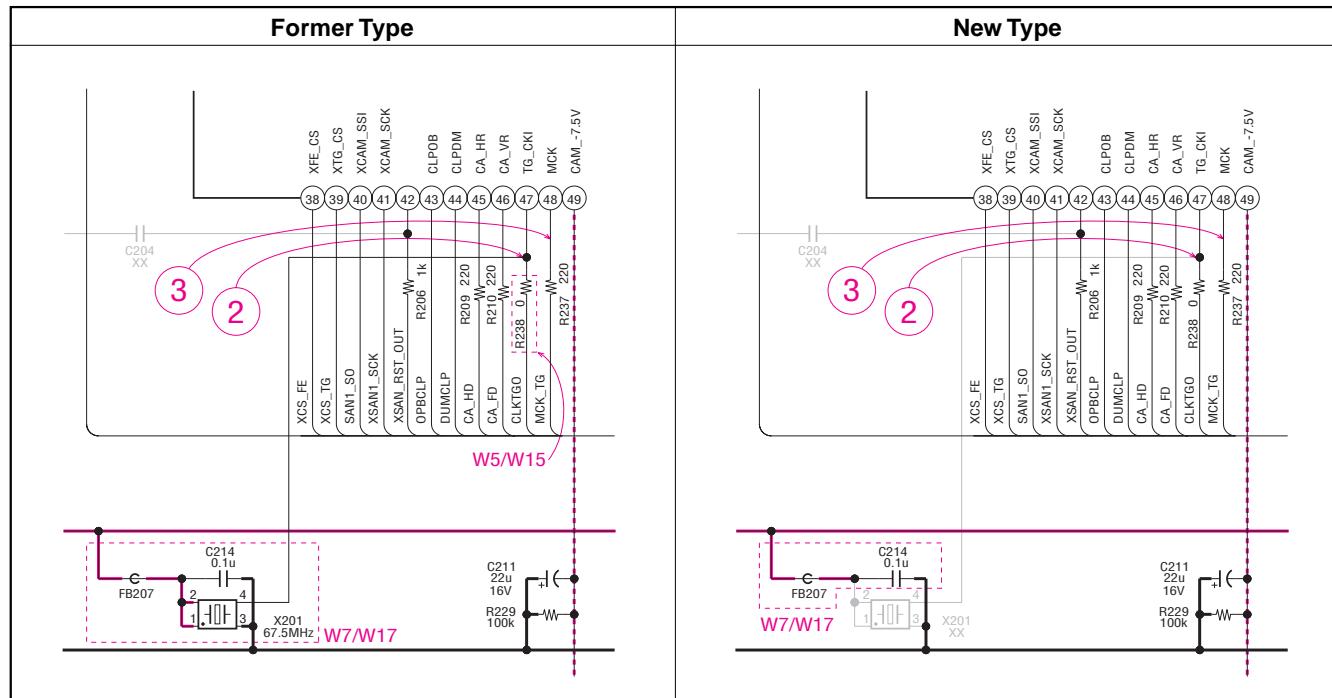
File this supplement with the service manual.
(PV05-071)

- Change of SCHEMATIC DIAGRAMS
- Change of REPAIR PARTS LIST

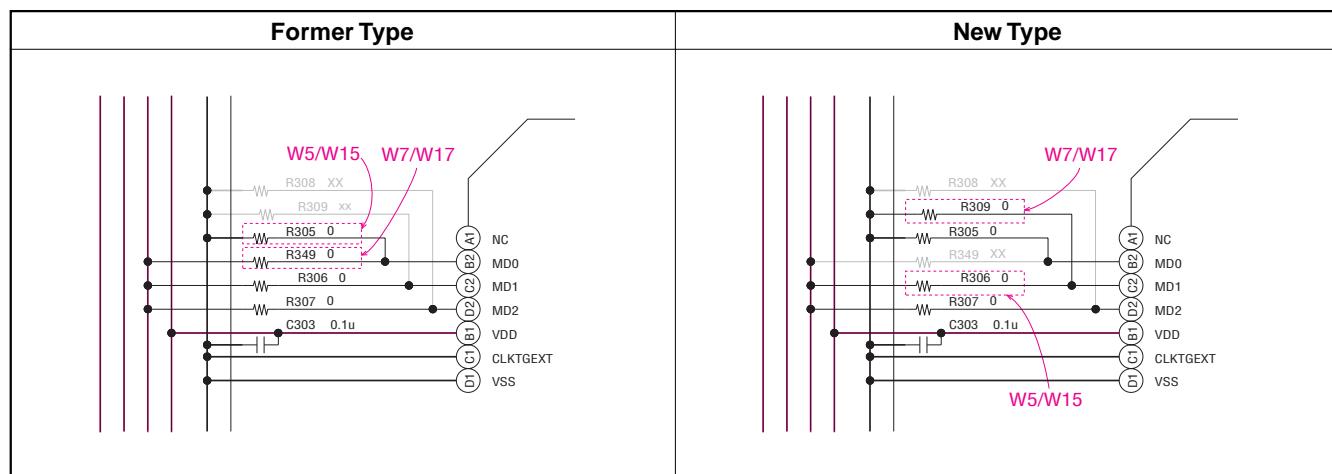
4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

4-2. SCHEMATIC DIAGRAMS

SY-001 BOARD (1/9) (CAMERA MODULE (CH BLOCK))
(Service manual page 4-13, Location G-6 to J-9)



SY-001 BOARD (2/9) (CAMERA DSP, CPU)
(Service manual page 4-15, Location D-2 to E-5)



5. REPAIR PARTS LIST

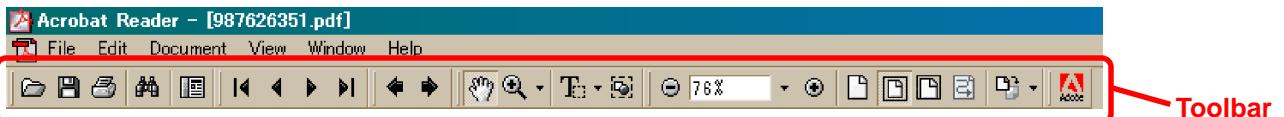
5-2. ELECTRICAL PARTS LIST

SY-001 BOARD

(Service manual page 5-12)

Former Type			New Type		
<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
R238	1-218-990-11	SHORT CHIP 0 (W5/W15)	R238	1-218-990-11	SHORT CHIP 0
R305	1-218-990-11	SHORT CHIP 0 (W5/W15)	R305	1-218-990-11	SHORT CHIP 0
R306	1-218-990-11	SHORT CHIP 0	R306	1-218-990-11	SHORT CHIP 0 (W5/W15)
R349	1-218-990-11	SHORT CHIP 0 (W7/W17)	R309	1-218-990-11	SHORT CHIP 0 (W7/W17)
X201	1-813-434-21	OSCILLATOR, CRYSTAL (67.5MHz) (W7/W17)			

[Description of main button functions on toolbar of the Adobe Acrobat Reader Ver5.0 (for Windows)]



Printing a text

1. Click the Print button
2. Specify a printer, print range, number of copies, and other options, and then click [OK].

Application of printing:

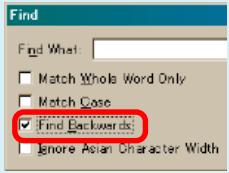
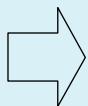
To set a range to be printed within a page, select the graphic selection tool and drag on the page to enclose a range to be printed, and then click the Print button.

Finding a text

1. Click the Find button
2. Enter a character string to be found into a text box, and click the [Find]. (Specify the find options as necessary)

Application to the Service Manual:

To execute "find" from current page toward the previous pages, select the check box "Find Backward" and then click the "Find".



3. Open the find dialog box again, and click the [Find Again] and you can find the matched character strings displayed next. (Character strings entered previously are displayed as they are in the text box.)

Application to the Service Manual:

The parts on the drawing pages (block diagrams, circuit diagrams, printed circuit boards) and parts list pages in a text can be found using this find function. For example, find a Ref. No. of IC on the block diagram, and click the [Find Again] continuously, so that you can move to the Ref. No. of IC on the circuit diagram or printed circuit board diagram successively.

Note: The find function may not be applied to the Service Manual depending on the date of issue.

Switching a page

- To move to the first page, click the
- To move to the last page, click the
- To move to the previous page, click the
- To move to the next page, click the

Reversing the screens displayed once

- To reverse the previous screens (operation) one by one, click the
- To advance the reversed screens (operation) one by one, click the

Application to the Service Manual:

This function allows you to go and back between circuit diagram and printed circuit board diagram, and accordingly it will be convenient for the voltage check.

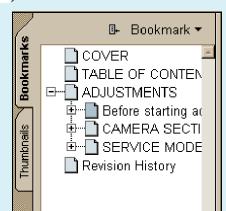
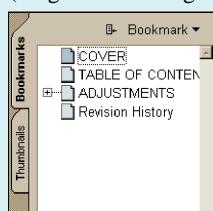
Moving with link

1. Select either palm tool , zoom tool , text selection tool , or graphic selection tool .
2. Place the pointer in the position in a text where the link exists (such as a button on cover and the table of contents page, or blue characters on the removal flowchart page or drawing page), and the pointer will change to the forefinger form .
3. Then, click the link. (You will go to the link destination.)

Moving with bookmark:

Click an item (text) on the bookmark pallet. and you can move to the link destination. Also, clicking can display the hidden items.

(To go back to original state, click



Zooming or rotating the screen display

"Zoom in/out"

- Click the triangle button in the zoom control box to select the display magnification. Or, you may click or for zooming in or out.



"Rotate"

- Click rotate tool , and the page then rotates 90 degrees each.

Application to the Service Manual:

The printed circuit board diagram you see now can be changed to the same direction as the set.

Revision History

Ver.	Date	History	Contents	S.M. Rev. issued
1.0	2005.01	Official Release	—	—
1.1	2005.12	Supplement-1 (S1 PV05-071)	<ul style="list-style-type: none">• Change of SCHEMATIC DIAGRAMS• Change of REPAIR PARTS LIST	No